

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number
WO 2005/058229 A3

(51) International Patent Classification:
C07K 14/00 (2006.01) A61K 38/00 (2006.01)

(21) International Application Number:
PCT/US2004/033230

(22) International Filing Date: 8 October 2004 (08.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/510,060 9 October 2003 (09.10.2003) US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 60/510,060 (CIP)
Filed on 9 October 2003 (09.10.2003)

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US (patent), UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
12 July 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ANTIVIRAL PROTEINS WITH IMPROVED PROPERTIES AND METHODS THEREFOR

Gene and AA sequence

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      M L G K F S Q T C Y N S A I Q G S V L T S T C E R T N G G
1  AGGAGGACAG CTATGCTGGG CRAGTTCAGC CAGACCTGCT ACAACAGCGC GATTCAGGCG AGCGTTCTGA CCAGCAGCTG CGRACGTACC AATGGTGGCT
   TCCTCTGTGC GATACGACCC GTTCAAGTCG GTCTGGAGCA TGTGTGCGCG CTAAGTCCCG TCGCAAGACT GGTCGTGGAC GCTTGCATGG TTACACDCGA

      Y N T S S I D L N S V I E N V D G S L K W Q P S N F I E T C R N T Q
101 ACAACACTTC TAGCATTGAT CTGAACAGCG TCAITGAGAA TGTGATGGCG TCTGTGAAT GGCACCCGAG CCACTTCATT GAAACCTGTC GCAACACCCA
   TGTGTGAAG ATCGTAACCTA GACTTGTGCG ACTAATCTCT ACACCTACCG AGAGACTTGA CCGTCGGCTC GTTGAAGTAA CTTTGACAGC CGTTGTGGGT

      L A G S S E L A A E C K T R A Q Q P V S T K I N L D D H I A N I D
201 GCTGGCGGGC AGCTCTGAAC TGGCGGCAGA ATGCAAGACT CCGCGCCAGC AGTTTGTGAG CACCAAGATC AACCTGGAGC ATCACTGCGC GACATTGAT
   CGACCGCCCG TCGAGACTTG ACCGCGCTCT TACGTCTGTA GCGCGCGTGG TCAAACTACT GTGTTCTIAG TTGACCTGCG TAGTGATAGG CTTGTAACCTA

      G T L K Y E #
301 GGCACCCCTGA AGTATGAATA A
   CCGTGGGACT TCATACTIAT T

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(57) Abstract: The invention provides novel recombinant proteins and compositions having non-naturally occurring N-terminal amino acids such as methionine, and methods of making and using the protein for greater anti-viral activity and less toxicity than naturally occurring proteins.

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